S/120/61/000/001/050/062
E032/E114

Photomultiplier Detection of X-ray Pulses

pulses was found to be independent of the cathode material. When the tube incorporates a nitrogen trap, the form of the pulse remains stable when the pressure is increased to 10^{-3} mm Hg. When the tube is operated without the trap, the stability deteriorates. The optimum working conditions of the tube at a working voltage of 470 kV per pulse were: pressure 10^{-5} mm Hg, anode to cathode distance 25 mm. The amplitude of the pulse under these conditions does not vary by more than ± 3% over long periods of time. The total output of X-rays is then 10^{19} - 10^{20} quanta/sec with a pulse duration of (3-4) x 10^{-7} sec.
There are 1 figure and 5 references: 2 Soviet and 3 non-Soviet.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR
(Institute of Chemical Physics, AS USSR)

SUBMITTED: June 24 1959, and in final form December 19, 1959

IPATOV, A.F.

22917 O skhodimosti polinomov s. n. bernshteyna dlya funktsiy dvukh peremennykh. uchen. zapiski karelo-fin. gos. un - ta, T. II, vyp. 4, 1947 (1sd: 1949), C. 53 - 57.

SO: LETOPIS' NO. 31, 1949

KOVAL'CHUK, L.M., kand. tekhn. nauk; IPATOV, A.F., inzh.; KSYUNINA, N.G., inzh.

Gluing wood by heating in a diffuse electric field of high-frequency currents. Der. prom. 11 no.7:11-13 Jl '62. (MIRA 17:1)

SOLOMATIN, A.; IPATOV, A.F., dotsent, nauchnyy rukovoditel'

Mapping the interior of a regular octagon on a circle. Sbor. nauch. rab. stud. Petrozav. gos. un. no.6:67-77 '62. (MIRA 17:11)

1. Kafedra teorii funktsiy i geometrii Petrozavodskogo gosudarstvennogo universiteta.

L 43728-65 EEO-2/EWT(d)/FSS-2/EWG(k)-2/EWG(v)/EED-2/EWA(c) Pn-4/Po-4/Pe-5/
ACCESSION NR: AR5009481 Pq-4/Pg-4/Pk-4/Pl-4 S/0124/65/000/003/A012/A012

BC

47

B

SOURCE: Ref. zh. Mekhanika, Abs. 3A95

AUTHOR: Ipatov, A.F.

TITLE: An analytic extension of a gyro axis nutation angle and a spherical pendulum [illegible] a complex time-related plane

SOURCE: Uch. zap. Petrozavodskogo un-ta, v. 11, no. 2, 1963 (1964), 24-27

TOPIC TAGS: Lagrange gyroscope, gyro nutation angle, time related equation, parameter change limitation, complex time concept

TRANSLATION: The author analyzed the nutation angle θ of a Lagrange gyroscope, the cosine γ of which is related to time by the equation

$$dt = \frac{d\gamma}{\sqrt{P(\gamma, h, r_0, K)}} \qquad (1)$$

$$P(\gamma, h, r_0, K) = -2\gamma^4 - (h + r_0^2)\gamma^3 - 2r_0\gamma^2 - (r_0^2 + K^2)\gamma + (1 - K^2)$$

$$h = \frac{C_1 - Cr_0^2}{Ml^2}, \quad K = \frac{C_3}{Ml^2}, \quad b = \frac{C}{A}$$

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ACCESSION NR.: AR5009481

...at the realness of magnitudes p, q, r and the Euler angles requires the ... equation (1) above. The author ... equation ... elimination of the ...

time

$$T_1 = t + \tau' = \int_0^U \frac{dU}{\sqrt{\ldots - U^2 \ldots}} \qquad (2)$$

This is followed by conformal representation of planes T_1 and U_1, as well as by the expansion of parameter change boundaries. M.I. Yefimov

SUB CODE: ME, EG ENCL: 00

Card 2/2

MEL'NIKOV, V.P., inzh.; SLATIN, V.A., inzh.; NOR-AREVYAN, K.L., inzh.; IPATOV, A.I., inzh.; SHKURO, L.A., inzh.; TYUTYUNNIKOV, B.D., inzh.

Let us give high-quality equipment to the reinforced-concrete-products plants! Transp. stroi. 12 no.3:30-33 Mr '62. (MIRA 16:11)

UPATOV, A.M.

Effect of the moisture of flax bast on its mechanical properties. Izv. vys. ucheb.zav.; tekh. tekst. prom. no.1:32-35 '65. (MIRA 18:5)

1. Kostromskoy tekhnologicheskiy institut.

IPATOV, A.M.

Disruption of bonds between fiber and woody portions in the displacement of the tow along the edge. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.4:40-45 '65. (MIRA 18:9)

1. Kostromskoy tekhnologicheskiy institut.

L 19761-65 EWT(d)/T/EWP(1) Pg-4/Ph-4/Pl-4 IJP(c)/AFWL/SSD/ASD(a)-5/ASD(s)/AFMD(p)/AFETR/RAEM(c)/ESD(c)/ESD(dp) MLK
ACCESSION NR: AT4047759 S/0000/64/000/000/0240/0242

AUTHOR: Ipatov, A. S.

TITLE: Method of constructing a bounded-distance code 16 B+1

SOURCE: AN SSSR. Institut avtomatiki i telemekhaniki. Teoriya i primeneniye avtomaticheskikh sistem (Theory and application of automatic systems). Moscow, Izd-vo Nauka, 1964, 240-242

TOPIC TAGS: code, coding, bounded distance code

ABSTRACT: For $D = 2^k \pm 1$ (where D is the code distance, $k \geq m$, and m is the number of information symbols in a code word), the optimum code can be constructed by the equivalent-pair method. The newly-formed set is a group having a code distance equal to the sum of the code distances of isomorphically added groups. The method of isomorphous addition can also be used with ordered sets between which a one-to-one correspondence exists. A code consisting of an

Card 1/2

L 19761-65
ACCESSION NR: AT4047759

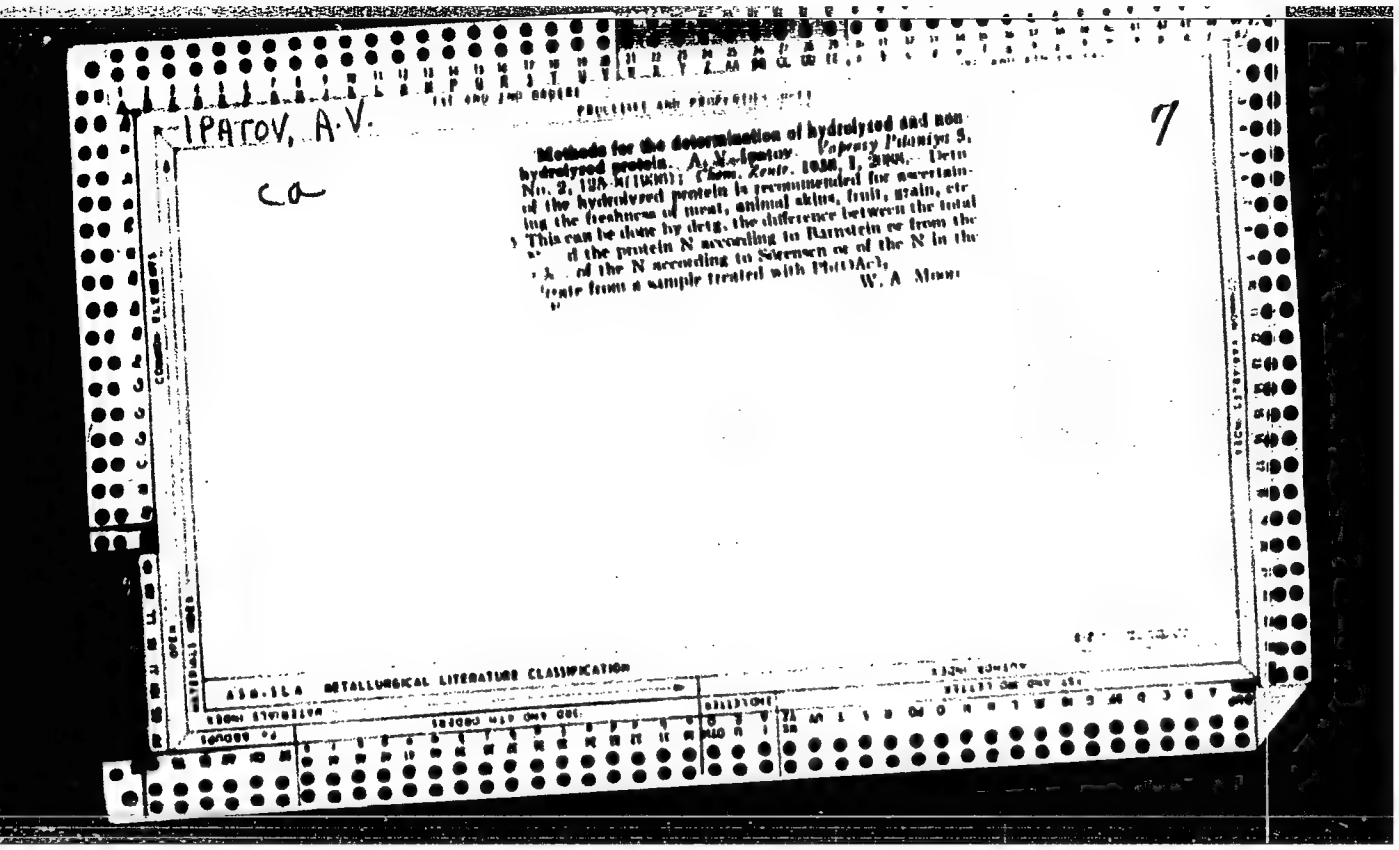
ordered subset of binary numbers has a distance 2, while the number N_1 of words that can be formed by means of this code is given by: $N_1 \leqslant 2^m = 2^{m_0-1}$, where m_0 is the word length. The all-combination code is an ordered subset of binary numbers with D = 1 and $N_1 \leqslant 2^m$, where m is the word length. In the limit case $N_1 = N_2 = N$. If a one-to-one correspondence is established between the terms of the first and second subsets, then, by combining corresponding words of both codes, new code words with D = 3 can be obtained. Orig. art. has: 10 formulas.

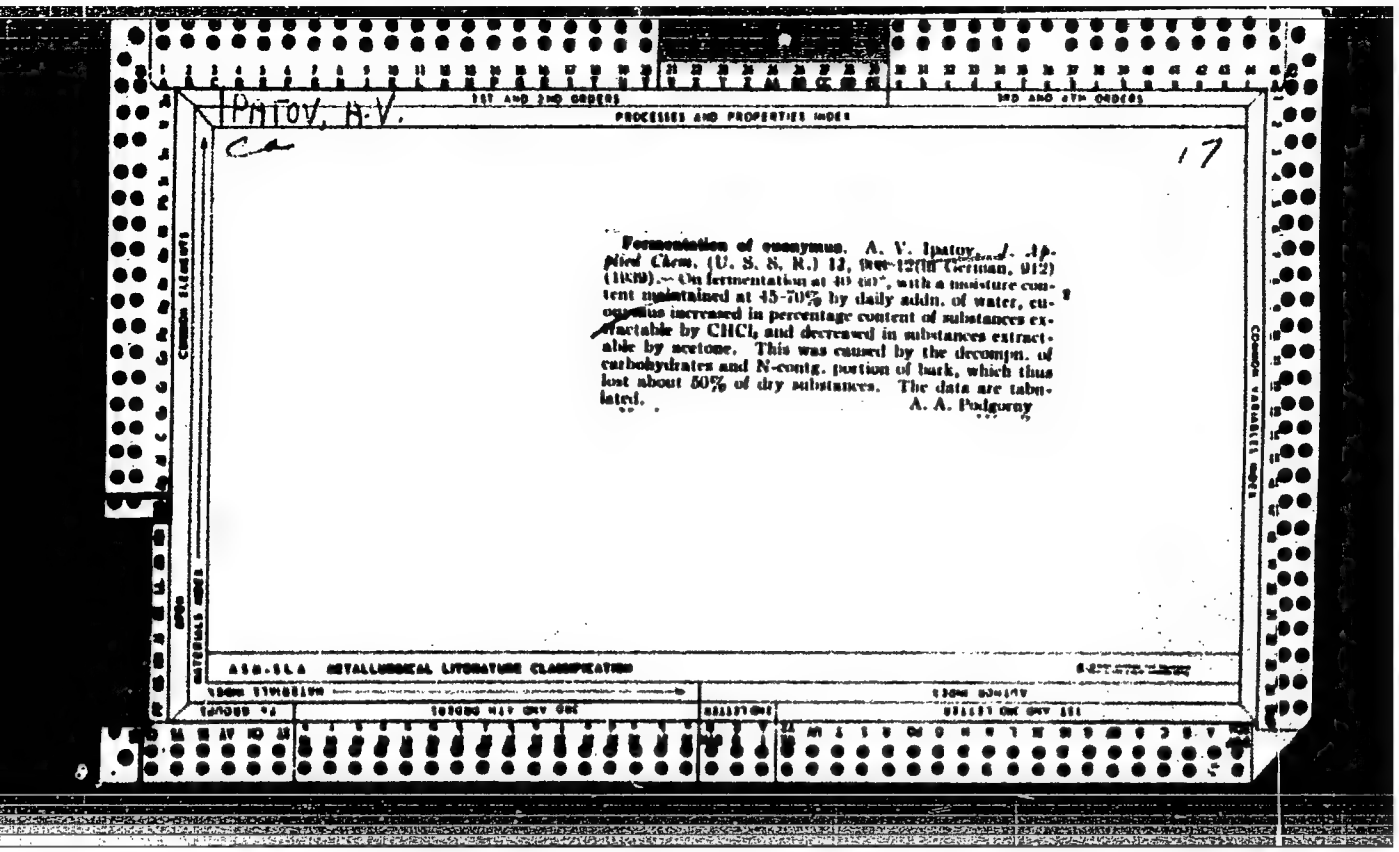
ASSOCIATION: none

SUBMITTED: 06Jun64 ENCL: 00

SUB CODE: DP NO REF SOV: 002 OTHER: 000

Card 2/2





PRITOV, A.V.

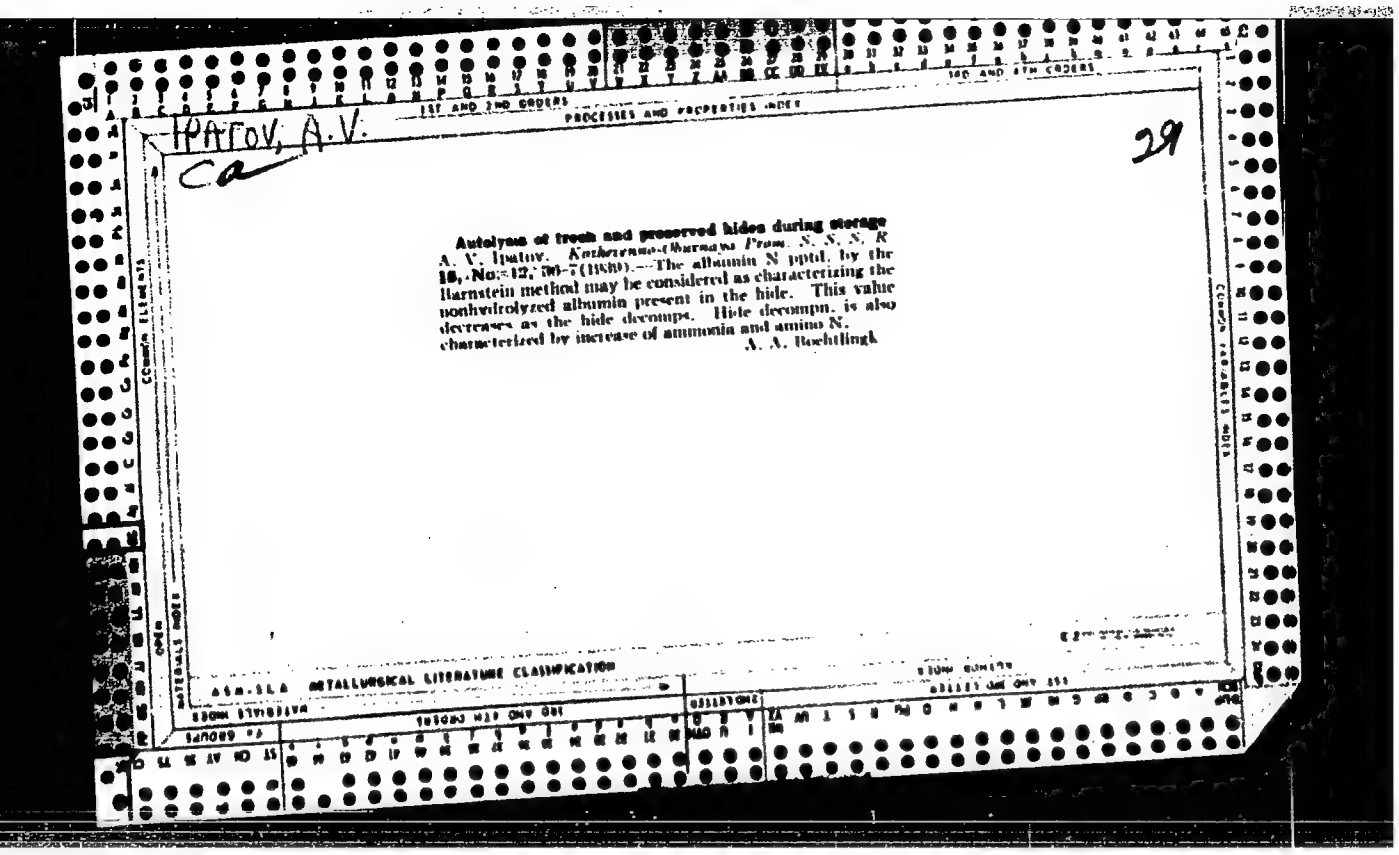
Ca

17

Fermentation of cuoxymus. A. V. Ipatov. *J. Applied Chem.* (U. S. S. R.) 12, [no. 12](in German, 912) (1939).—On fermentation at 40 60°, with a moisture content maintained at 45-70% by daily addn. of water, cuoxymus increased in percentage content of substances extractable by $CHCl_3$ and decreased in substances extractable by acetone. This was caused by the decompn. of carbohydrates and N-contg. portion of bark, which thus lost about 50% of dry substances. The data are tabulated.

A. A. Polgorny

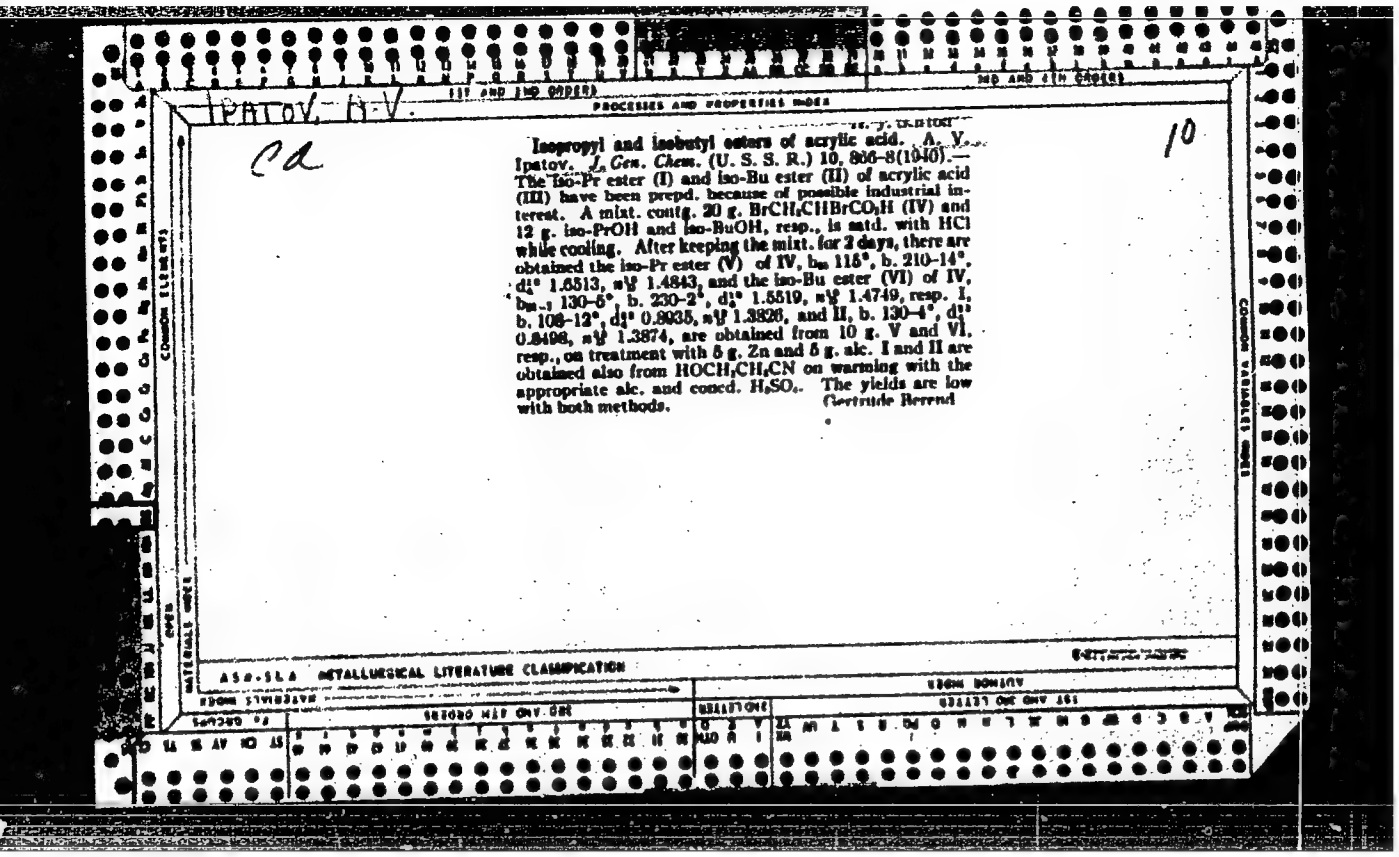
A58-SLA METALLURGICAL LITERATURE CLASSIFICATION



IPATOV, A.V.
Ca

29

Autolysis of fresh and preserved hides during storage A. V. Ipatov. *Kozhevenno-Obuvnaya Prom. S. S. S. R.* **18**, No. 12, 30–7 (1939).—The albumin N pptd. by the Barnstein method may be considered as characterizing the nonhydrolyzed albumin present in the hide. This value decreases as the hide decomps. Hide decompn. is also characterized by increase of ammonia and amino N.
A. A. Boehtlingk



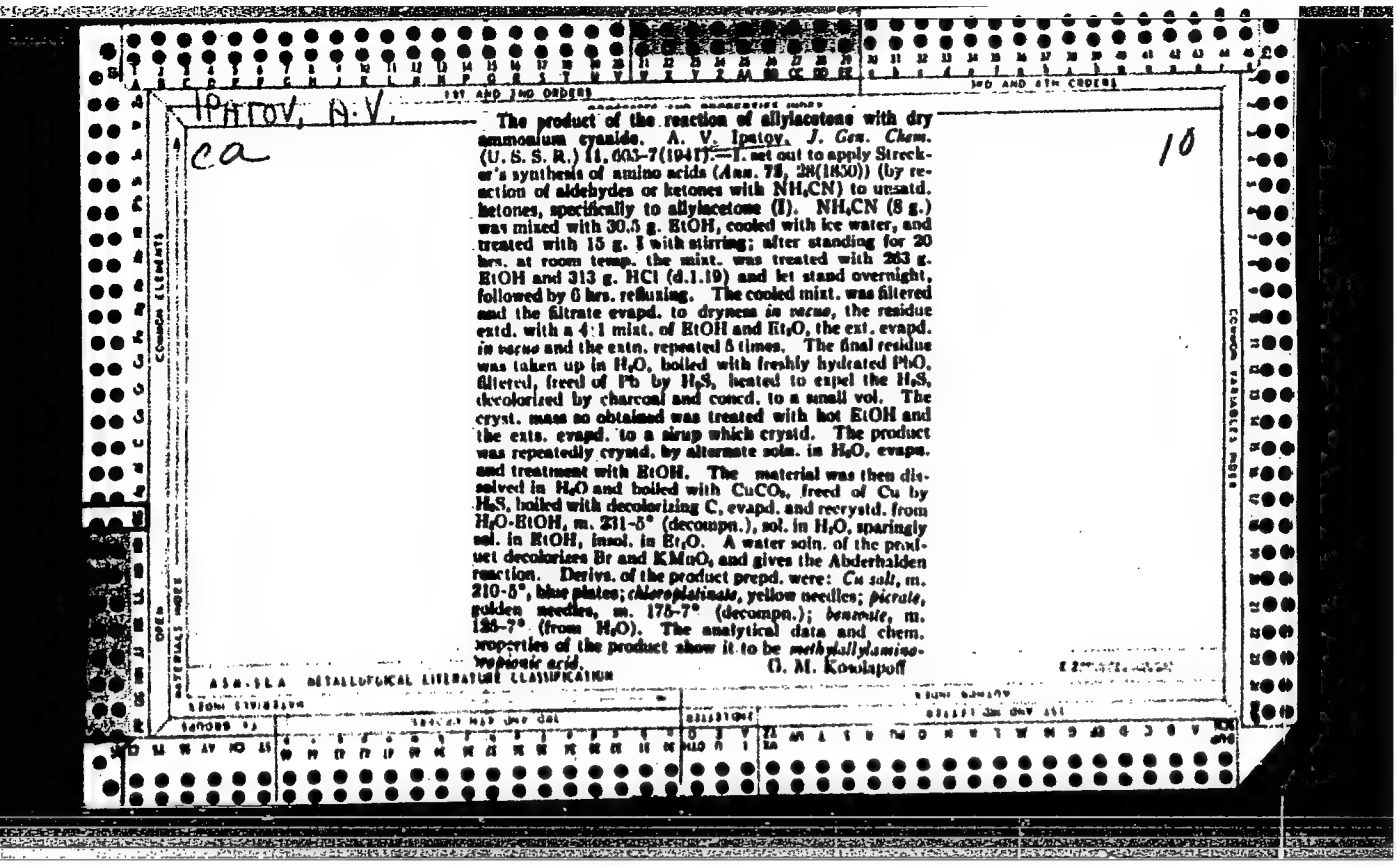
Ipatov, A.V.

Ca

10

Isopropyl and isobutyl esters of acrylic acid. A. V. Ipatov. *J. Gen. Chem.* (U. S. S. R.) 10, 866–8(1940).—The iso-Pr ester (I) and iso-Bu ester (II) of acrylic acid (III) have been prepd. because of possible industrial interest. A mixt. contg. 20 g. $BrCH_2CHBrCO_2H$ (IV) and 12 g. iso-PrOH and iso-BuOH, resp., is satd. with HCl while cooling. After keeping the mixt. for 2 days, there are obtained the iso-Pr ester (V) of IV, b_{20} 115°, b. 210–14°, d_4^{15} 1.6513, n_D^{15} 1.4843, and the iso-Bu ester (VI) of IV, b_{20-5} 130–5°, b. 230–2°, d_4^{15} 1.5519, n_D^{15} 1.4749, resp. I, b. 108–12°, d_4^{15} 0.8935, n_D^{15} 1.3826, and II, b. 130–4°, d_4^{15} 0.8498, n_D^{15} 1.3874, are obtained from 10 g. V and VI, resp., on treatment with 5 g. Zn and 5 g. alc. I and II are obtained also from $HOCH_2CH_2CN$ on warming with the appropriate alc. and concd. H_2SO_4. The yields are low with both methods.

Gertrude Berend



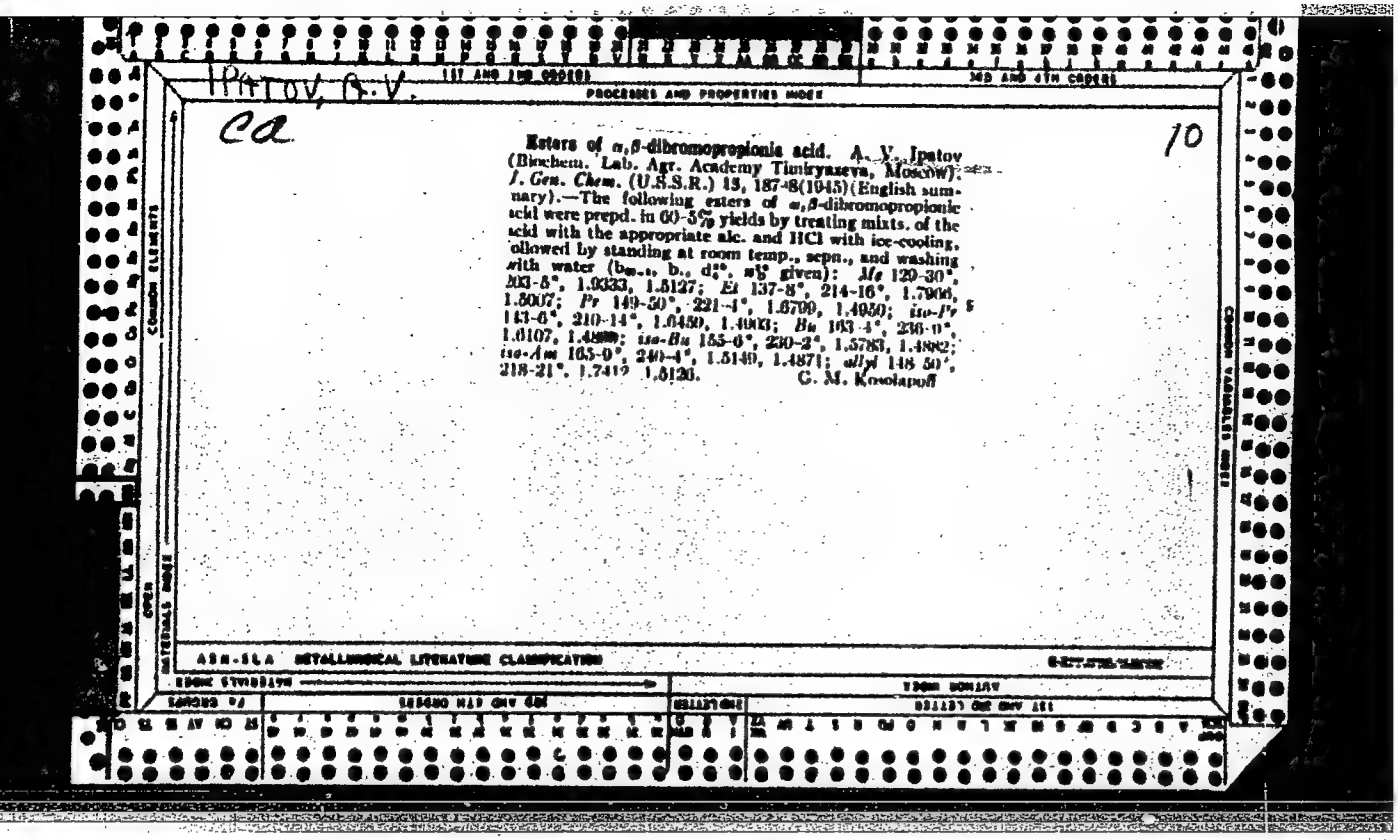
IPATOV, A.V.

ca

10

The product of the reaction of allylacetone with dry ammonium cyanide. A. V. Ipatov. *J. Gen. Chem.* (U. S. S. R.) 11, 603-7(1941).—I. set out to apply Strecker's synthesis of amino acids (*Ann.* 75, 28(1850)) (by reaction of aldehydes or ketones with NH_4CN) to unsatd. ketones, specifically to allylacetone (II). NH_4CN (8 g.) was mixed with 30.5 g. EtOH, cooled with ice water, and treated with 15 g. I with stirring; after standing for 20 hrs. at room temp. the mixt. was treated with 263 g. EtOH and 313 g. HCl (d.1.19) and let stand overnight, followed by 6 hrs. refluxing. The cooled mixt. was filtered and the filtrate evapd. to dryness *in vacuo*, the residue extd. with a 4:1 mixt. of EtOH and Et_2O, the ext. evapd. *in vacuo* and the extn. repeated 5 times. The final residue was taken up in H_2O, boiled with freshly hydrated PbO, filtered, freed of Pb by H_2S, heated to expel the H_2S, decolorized by charcoal and concd. to a small vol. The cryst. mass so obtained was treated with hot EtOH and the exts. evapd. to a sirup which cryst'd. The product was repeatedly cryst'd. by alternate soln. in H_2O, evapn. and treatment with EtOH. The material was then dissolved in H_2O and boiled with $CuCO_3$, freed of Cu by H_2S, boiled with decolorizing C, evapd. and recryst'd. from H_2O-EtOH, m. 231-5° (decompn.), sol. in H_2O, sparingly sol. in EtOH, insol. in Et_2O. A water soln. of the product decolorizes Br and $KMnO_4$ and gives the Abderhalden reaction. Derivs. of the product prepd. were: *Cu salt*, m. 210-5°, blue plates; *chloroplatinate*, yellow needles; *picrate*, golden needles, m. 175-7° (decompn.); *benzoate*, m. 128-7° (from H_2O). The analytical data and chem. properties of the product show it to be *methylallylaminopropionic acid*.

O. M. Kondapoff



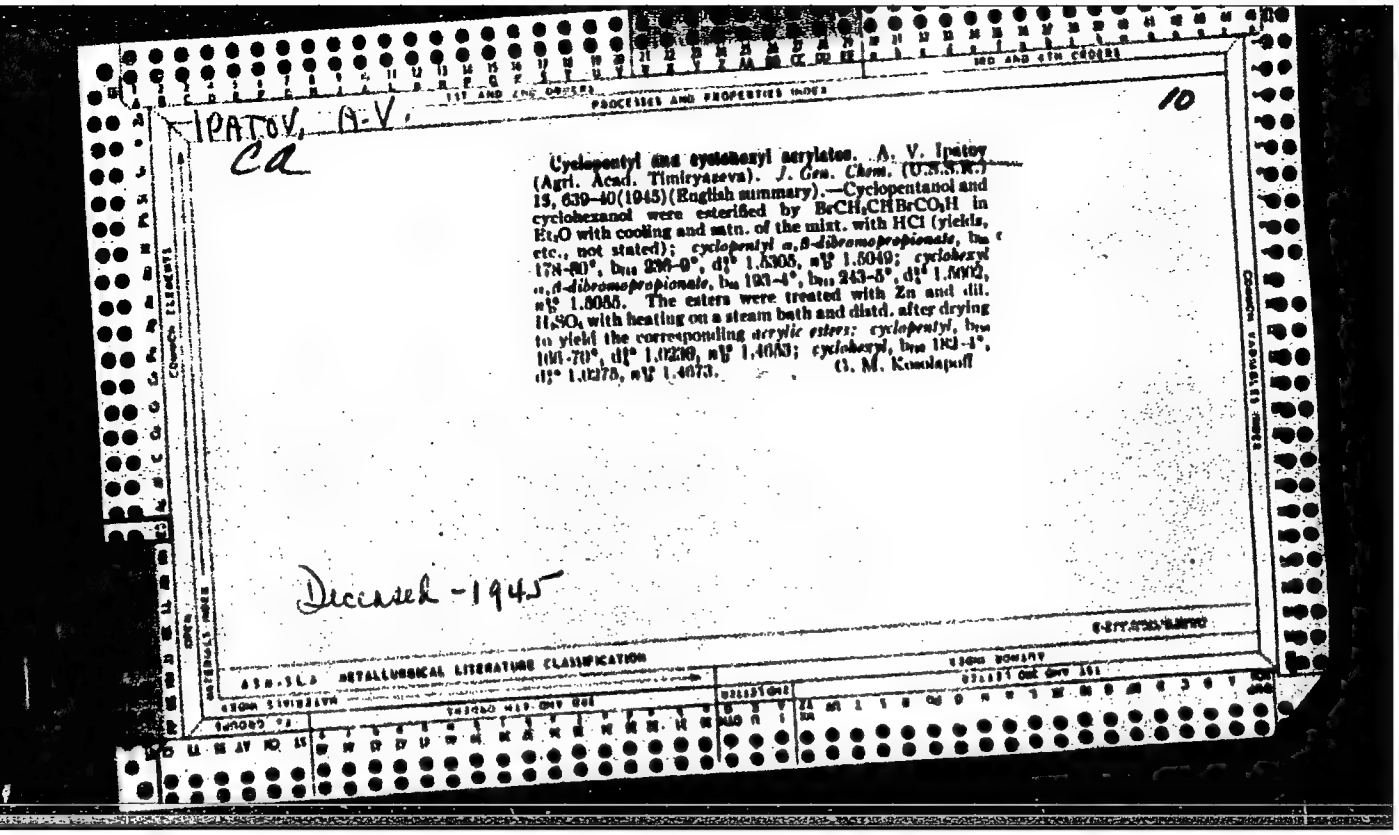
IPATOV, A. V.

Ca

10

Esters of α,β-dibromopropionic acid. A. V. Ipatov (Biochem. Lab. Agr. Academy Timiryazeva, Moscow). *J. Gen. Chem.* (U.S.S.R.) 15, 187-8(1945)(English summary).—The following esters of α,β-dibromopropionic acid were prepd. in 60–5% yields by treating mixts. of the acid with the appropriate alc. and HCl with ice-cooling, followed by standing at room temp., sepn., and washing with water (bp., b., d$^{t°}$, n_D^t given): *Me* 129-30°, 203-5°, 1.9333, 1.5127; *Et* 137-8°, 214-16°, 1.7906, 1.5007; *Pr* 149-50°, 221-4°, 1.6709, 1.4950; *iso-Pr* 143-6°, 210-14°, 1.6450, 1.4903; *Bu* 163-4°, 236-9°, 1.6107, 1.4889; *iso-Bu* 155-6°, 230-2°, 1.5785, 1.4882; *iso-Am* 165-9°, 240-4°, 1.5140, 1.4871; *allyl* 148-50°, 218-21°, 1.7419, 1.5126.

G. M. Kosolapoff



IPATOV, A. V.
Ca

10

Cyclopentyl and cyclohexyl acrylates. A. V. Ipatov (Agri. Acad. Timiryazeva). *J. Gen. Chem.* (U.S.S.R.) 15, 639–40(1945)(English summary).—Cyclopentanol and cyclohexanol were esterified by $BrCH_2CHBrCO_2H$ in Et_2O with cooling and satn. of the mixt. with HCl (yields, etc., not stated); *cyclopentyl α,β-dibromopropionate*, b_{10} 178–80°, b_{760} 290–5°, d_4^{20} 1.6305, n_D^{20} 1.5049; *cyclohexyl α,β-dibromopropionate*, b_{10} 193–4°, b_{760} 243–5°, d_4^{20} 1.5992, n_D^{20} 1.5085. The esters were treated with Zn and dil. H_2SO_4 with heating on a steam bath and distd. after drying to yield the corresponding *acrylic esters*: *cyclopentyl*, b_{760} 166–70°, d_4^{20} 1.0230, n_D^{20} 1.4053; *cyclohexyl*, b_{760} 182–4°, d_4^{20} 1.0275, n_D^{20} 1.4073.

G. M. Kosolapoff

Deceased - 1945

IPATOV, A.Ya.

New data on the Carboniferous stratigraphy of the Kalba Range.
Izv. AN Kazakh. SSR. Ser. geol. no.2:35-44 '61. (MIRA 14:7)
(Kalba Range--Geology, Stratigraphic)

DAVIDENKO, V.V.; IPATOV, A.Ya.; KISELEV, A.K.

Silurian and Devonian stratigraphy of the Char structural-facies zone. Izv. AN Kazakh. SSR. Ser. geol. nauk no.5:23-31 '63. (MIRA 17:1)

1. Institut geologicheskikh nauk AN KazSSR, Alma-Ata i Yuzhno-Kazakhstanskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedr KazSSR, Alma-Ata.

SHAVRIN, S.V.; ZAKHAROV, I.N.; IPATOV, B.V.

Outflow of slag through the regenerator into a counterflow.
Izv. vys. ucheb. zav.; chern met. 5 no.9:54-65 '62. (MIRA 15:10)

1. Institut metallurgii Ural'skogo filiala AN SSSR.
(Blast furnaces—Design and construction) (Heat—Transmission)

SHAVRIN, S.V. (Sverdlovsk); ZAKHAROV, I.N. (Sverdlovsk); LEATOV, B.V. (Sverdlovsk)

Kinetic regularities of the reduction of slag by gas. Izv. AN SSSR Met. i gor. delo no.3:22-31 My-Je '64 (MIRA 17:7)

SHAVRIN, S.V.; ZAKHAROV, I.N.; IPATOV, B.V.

Slag outflow through coke spouts. Izv. vys. ucheb. zav.; chern. met. 7 no.1:33-37 '64. (MIRA 17:2)

1. Institut metallurgii Ural'skogo filiala AN SSSR.

SHAVRIN, S.V. (Sverdlovsk); ZAKHAROV, I.N. (Sverdlovsk); IPATOV, B.V. (Sverdlovsk)

Regularities of the reduction of iron slag on graphite attachments. Izv. AN SSSR. Met. i gor. delo no.4:29-39 Jl-Ag '64. (MIRA 17:9)

IPATOV, D.S.; BARANOV, G.I.

Rare phenomenon in Tiksi Bay. Priroda 50 no.4:114 Ap '61.
(MIRA 14:4)

1. Arkticheskaya nauchno-issledovatel'skaya observatoriya, bukhta Tiksi.
(Tiksi Bay—Hydrology)

IPATOV, D.S.

Results of calculating the heat conductivity of sea ice. Probl. Arkt. i Antarkt. no.9:79-82 '61. (MIRA 15:1)
(Tiksi Bay—Sea ice—Thermal properties)

IPATOV, E.V.

Estimating the reliability of underground excavators. Trudy Inst. gor. dela AN Kazakh. SSR 17:65-67 '65. (MIRA 18:9)

BEL'KEVICH, V.I.; ALEKSEYEV, Ye.G.; IPATOV, G.M.

Method of destruction of erythrocytes for the purpose of automatic counting of the formed elements of the blood. Nov. med. tekh. no.2:25-30 '62. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya.

KUPCHINOV, Ivan Iosifovich, kand. tekhn. nauk, dots.; IPATOV, I.I., red.; VASIL'YEVA, V.I., red. izd-va; SUNGUROV, V.S., tekhn. red.

[Compensation of triangulation and traverse networks; method of conditional equations with nonmeasurable unknowns] Uravnoveshivanie setei trianguliatsii i poligonometrii; metod uslovnykh uravnenii s neizmeriaemymi neizvestnymi. Moskva, Geodezizdat, 1962. 194 p. (MIRA 15:7)

(Geodesy)

LITVINOV, B.A., doktor tekhn. nauk; IPATOV, I.I., kand. tekhn. nauk

Adjusting bearing angles in a traverse-triangulation network.
Izv. vys. ucheb. zav.; geod. i aerof. no.2:3-14 '64.
(MIRA 17:9)

L 34378-66 EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP6021998 SOURCE CODE: UR/0120/66/000/003/0066/0069

AUTHOR: Ipatkin, I. S.; Bulatov, B. P.; Antonov, Ye. A.

ORG: Earth Physics Institute, AN SSSR (Institut fiziki zemli AN SSSR)

TITLE: Soft x-ray detector for the 1—12 Å range

SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 66-69

TOPIC TAGS: x ray detection, x ray filter, x ray measurement

ABSTRACT: A soft x-ray detector is described which was designed to register radiation in the 1—12 Å range. The design, shown in Fig. 1, comprises the detector proper and an attached x-ray source for calibration. Detection is made by means of an FEU-15 or -16 photomultiplier using a plastic scintillator. The detector is housed in a light-tight casing, except for the input window, which is covered with a thin layer of vaseline. Detected output is taken off an emitter follower for recording, etc. The detector is calibrated differentially by bombarding the scintillator from the controlled x-ray source through a series of beryllium foil filters (8) of various thicknesses. Characteristic curves for the detector are given.

Card 1/2 UDC: 621.387

L 34378-66

ACC NR: AP6021998

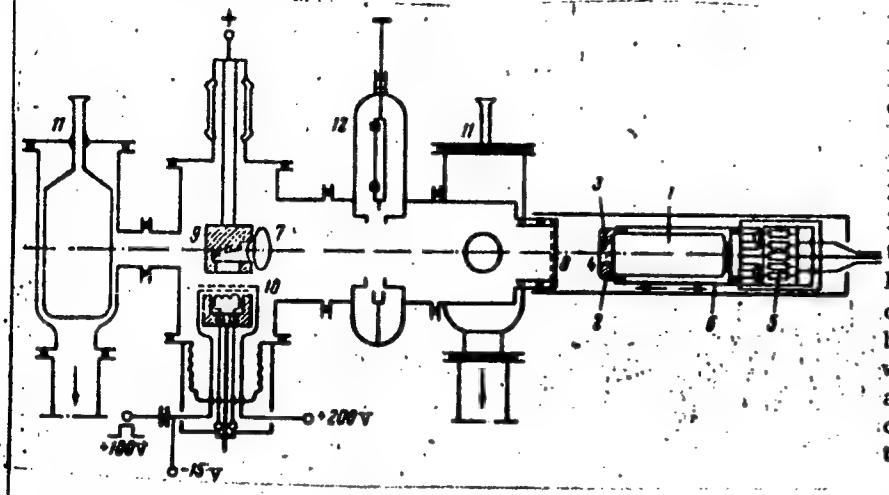


Fig. 1. Soft x-ray detector

1 - Detector window; 2 - ebonite collar; 3 - 30 mm-diameter plastic scintillator; 4 - 9-μ Be foil; 5 - voltage divider; 6 - detector housing; 7, 8 - windows with 9-μ Be foil; 9 - anode; 10 - adjustable cathode; 11 - nitrogen traps; 12 - gate.

Operation can be in a pulsed or continuous mode, and the energy range registered is from 1 to 20 kev. X-ray flux recorded over a given spectral interval is estimated accurate within 15—20%. Orig. art. has: 5 figures and 1 formula. [SH]

SUB CODE: 17, 18/ SUBM DATE: 05Apr65/ ORIG REF: 004/ OTH REF: 002/ ATD PRESS: 5034

Card 2/2

GOVERT, Aleksandr Aleksandrovich; IPATOV, I.V., red.; VORONIN, K.P., tekhn. red.

[Water treatment for steam engines] Vodopodgotovka dlia lokomobilei. Moskva, Gos.energ. izd-vo, 1960. 188 p. (MIRA 14:5)

(Steam engines) (Feed-water purification)

SOLOGUB, Nikolay Avramovich, inzh.; IL'IN, Boris Nikolayevich, kand. tekhn. nauk, dotsent; IPATOV, Konstantin Aleksandrovich, inzh.; MOYSIK, M.R., kand. tekhn. nauk, retsenzent; TIRANSKAYA, S.M., kand. tekhn. nauk, retsenzent; KHMELEVSKIY, S.A., kand. tekhn. nauk, retsenzent; PREYS, G.A., kand. tekhn. nauk, dots., red.; FURER, P.Ya., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Laboratory research on the technology of metals] Laboratornye raboty po tekhnologii metallov. Moskva, Mashgiz, 1961. 294 p. (Metallurgical research) (Metalwork--Testing) (MIRA 15:2)

IPATOV, L.

Vacuum-tube electric meter. Radio no.1:31 Ja '60.
(MIRA 13:5)
(Electric meters)

IPATOV, L. G. Cand. Physicomath. Sci.

Dissertation: "Investigation of the Interaction of Magnetized Bodies." Moscow Order of Lenin State U. imeni M.V. Lomonosov, 23 Apr. 1947

SO: Vechernyaya Moskva, Apr. 1947 (Project #17836)

S/057/60/030/05/09/014
B012/B056

AUTHOR: Ipatov, L. G.

TITLE: The Propagation of an Electromagnetic Wave in a Ferromagnetic

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 5, pp. 522 - 528

TEXT: Under reference to the papers by W. Cauer (Ref. 1), R. Becker (Ref. 2), and V. K. Arkad'yev (Ref. 3) the propagation of an electromagnetic wave in a badly conductive small ferromagnetic plate is investigated. It is shown that the propagation of the wave depends on the aftereffects, the eddy currents, the hysteresis, and the wave amplitude. Consideration of these factors and the use of the new method for the purpose of solving differential equation (3) offers the possibility of obtaining more general relations characterizing the process of wave propagation. The solutions obtained are here transformed for the case of a metallic ferromagnetic. The theoretical conclusions drawn in the present paper are compared with the formulas obtained by other authors.

Card 1/2

The Propagation of an Electromagnetic Wave in a Ferromagnetic

S/057/60/030/05/09/014
B012/B056

It is shown on the basis of a few examples that in limiting cases the theoretical conclusions by Cauer, Becker, and Arkad'yev may be attained. There are 2 figures and 3 references: 1 Soviet and 2 German.

SUBMITTED: July 8, 1957

✓B

Card 2/2

IPATOV, L.G.

Magnetic characteristics of a ferromagnetic subjected to oscillatory mode of operation. Zhur. tekhn. fiz. 30 no.6:685-689 Je '60. (MIRA 13:8)

1. Voronezhskiy gosudarstvennyy meditsinskiy institut.
(Ferromagnetism)

IPATOV, M.I., inzhener, uchenyy sekretar'.

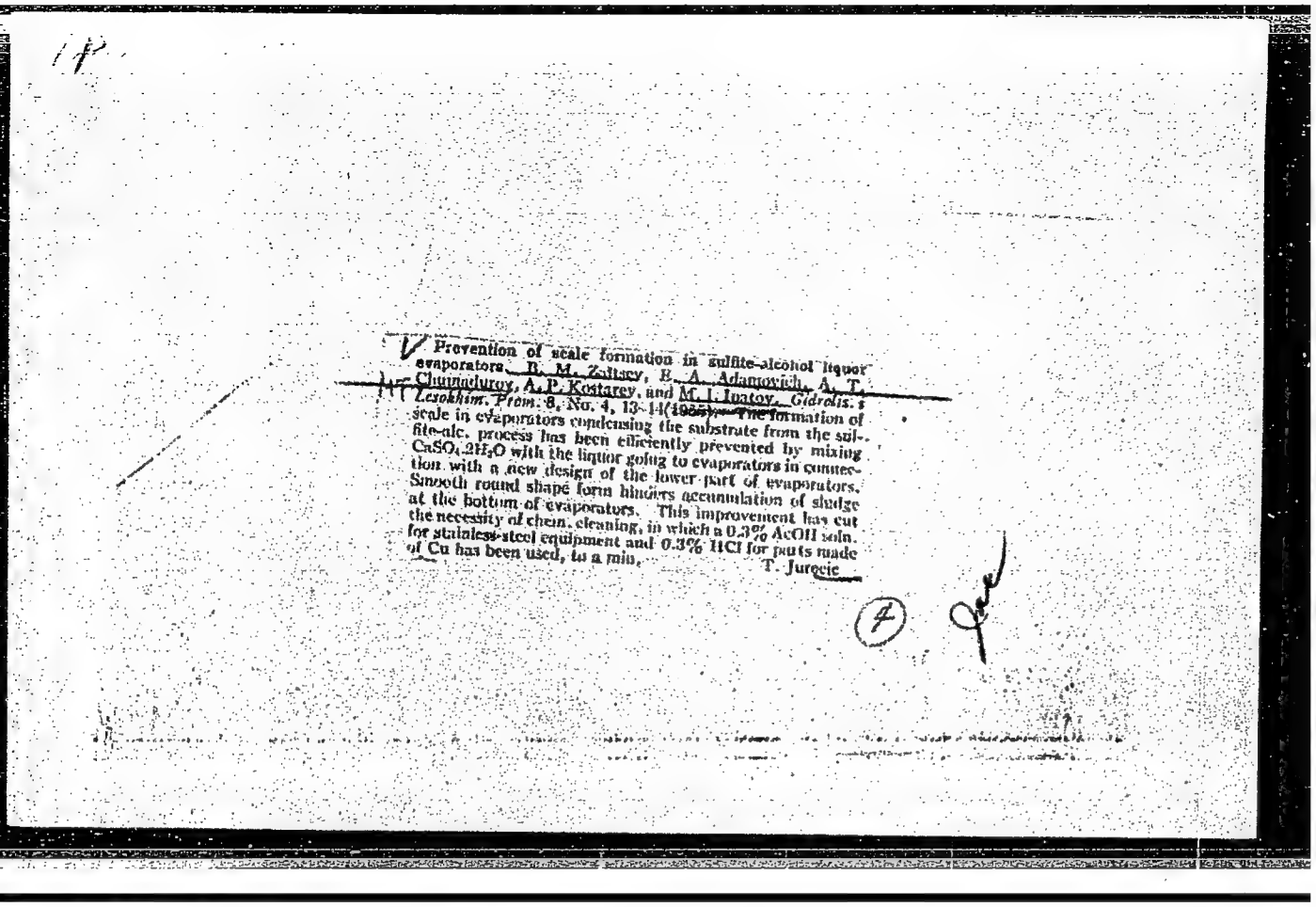
Discussion on the problems concerning the unified system of planned periodic repairs. Vest. mash. 33 no.12:95-96 D '53. (MLRA 6:12)

1. Komitet remonta i modernizatsii oborudovaniya Moskovskogo nauchnogo inzhenerno-tekhnicheskogo obshchestva mashinostroiteley. (Machine-shop practice--Repairing)

IPATOV, M. I.

"Technical Economic Questions on the Reconditioning of Worn Shafts Operating on Sliding Friction Bearings." Cand Tech Sci, Moscow Order of Labor Red Banner Higher Technical School imeni Bauman, Min Higher Education USSR, Moscow, 1955. (KL, No 13, Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)



Prevention of scale formation in sulfite-alcohol liquor evaporators. B. M. Zoltsev, E. A. Adamovich, A. T. Chumadurov, A. P. Kostarev, and M. I. Ivatov. *Gidrolis. i Lesokhim. Prom.* 8, No. 4, 13-14(1955). The formation of scale in evaporators condensing the substrate from the sulfite-alc. process has been efficiently prevented by mixing $CaSO_4.2H_2O$ with the liquor going to evaporators in connection with a new design of the lower part of evaporators. Smooth round shape form hinders accumulation of sludge at the bottom of evaporators. This improvement has cut the necessity of chem. cleaning, in which a 0.3% AcOH soln. for stainless-steel equipment and 0.3% HCl for parts made of Cu has been used, to a min.

T. Jurecic

SOV-117-58-9-17/22

AUTHOR: Ipatov, M.I., Candidate of Technical Sciences

TITLE: Selection of an Efficient Repair Method of Worn Out Parts (O vybore ratsional'nogo metoda vosstanovleniya iznoshennykh detaley)

PERIODICAL: Mashinostroitel', 1958, Nr 9, pp 39-42 (USSR)

ABSTRACT: There are only a few existing studies dealing with the problem of selecting efficient methods for the repair of parts, such as those performed by Ch.I. Zgirskiy, Candidate of Technical Sciences, and A.A. Mutalibov of the Moscow Avtodorozhniy institut (Institute of Automobile Roads) under the supervision of Professor V.V. Yefremov. In the present article, the author discusses physical and mechanical properties of repaired parts and the repair cost in order to reveal most efficient repair conditions. Optimum operation technology and variants of technological processes are given for 4 different repair

Card 1/2

Selection of an Efficient Repair Method of Worn Out Parts SOV-117-58-9-17/22

methods: metallization, chrome-plating, acieration, building up by welding.
There are 5 tables and 1 graph.

1. Machines--Maintenance

Card 2/2

25(0)

SOV/117-59-4-30/36

AUTHOR: Ipatov, M.I., Candidate of Technical Sciences.

TITLE: Novelties in the Techniques of Mounting Industry Equipment.

PERIODICAL: Mashinostroitel', 1959, Nr 4, pp43-44 (USSR)

ABSTRACT: The article describes shock-absorbing supports for machines like stamping presses, causing inaccuracies in the operation of other machines, and noise, used in West European countries and the USA. There are 3 photographs, 1 diagram and 4 German, 3 English and 1 Dutch references.

Card 1/1

GLAGOLEVA, L.A., kand. tekhn. nauk, dots.; PROSKURYAKOV, A.V., kand. tekhn. nauk, dots.; IPATOV, M.I., kand. tekhn. nauk, dots.; RAZUMOV, I.M., prof., doktor ekon. nauk; PURTOV, S.G., inzh., starshiy prepodavatel'; MURAV'YEV, M.S., kand. tekhn. nauk, dots.; GRACHEVA, K.A., kand. tekhn. nauk, dots.; KOMAROV, F.V., inzh., retsenzent; TOBIAS, D.A., kand. tekhn. nauk, red.; SALYANSKIY, A.A., red. izd-va; EL'KIND, V.D., tekhn. red.

[Problems for the course in the organization and planning of machinery plants]Sbornik zadach po kursu organizatsii i planirovaniia mashinostroitel'nykh predpriiatii. Pod red. I.M.Razumova, L.A.Glagolevoi. Moskva, Mashgiz, 1962. 261 p. (MIRA 15:12)

(Machinery industry)

IPATOV, M.I.; TOBIAS, D.A., kand. tekhn.nauk, retsenzent; KONSTANTINOV, B.P., inzh., red.; PETUKHOVA, G.N., red. izd-va; MEL'NICHENKO, F.P., tekhn. red.

[Technical and economic evaluation of motor-vehicle elements in designing; motortrucks] Tekhniko-ekonomicheskaia otsenka konstruktsii avtomobilei pri proektirovanii; gruzovye avtomobili. Moskva, Mashgiz, 1963. 186 p. (MIRA 16:9)
(Motortrucks--Design and construction)

IPATOV, M.I., kand. tekhn. nauk, dotsent

Using unit cost calculation of designed transportation machines in evaluating their economic efficiency. Izv. vys. ucheb. zav.; mashinostr. no.11:114-121 '63. (MIRA 17:10)

1. Moskovskoye vysshoye tekhnicheskoye uchilishche imeni Baumana.

IPATOV, M.M.

1. LEONT'EV, L. N.; IPATOV, M. M.

2. USSR (600)

4. Tannu Ola Mountains--Granite

7. Age of certain caledonian granites from the eastern Tannu Ola Mts. (Tuva), Dokl. AN SSSR, 88, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

S/148/63/000/003/007/007
E193/E183

AUTHOR: Ipatov, N.

TITLE: Some comments on the current views on laminar cracking during fracture of constructional steels

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no.3, 1963, 159-162

TEXT: One of the least studied defects of constructional steels is the formation of laminar (longitudinal) cracks in rolled rods tested to fracture in static or impact bending. I. Golikov and P. Karyazin (Stal' no.7, 1939, 44) who were first to observe and study this effect, arrived at the conclusion that this type of fault is observed in some alloy steels only, and attributed it to structural nonhomogeneity of the steel. They claimed that dendritic liquation brings about localized segregation, the resultant concentration gradients being responsible for the presence in the finished product of alternate layers with different mechanical properties (particularly plasticity). Owing to this difference, intensified by heat treatment, the adjacent layers may deform in a different manner

when subjected to static or impact bending, this leading to destruction of the bond between these layers and formation of longitudinal, laminar cracks. The present author criticizes this theory, shows that it has not been sufficiently substantiated by experiment, and quotes experimental data which are in direct contradiction to the views first expressed by Golikov and Karyazin and reiterated later by some other Soviet workers. There is 1 figure.

ASSOCIATION: Dnepropetrovskiy filial Ukrainskogo zaochnogo politekhnicheskogo instituta
(Dnepropetrovsk Branch of the Ukrainian Polytechnic Institute for Correspondence Studies)

SUBMITTED: January 25, 1961

Card 2/2

IPATOV, N.K., kand. tekhn. nauk; KRIVOUSOV, V.A., kand. tekhn. nauk

Pressure distribution along the height of a cylindrical foundry sprue. Lit. proizv. no.1:40-41 Ja '66.

(MIRA 19:1)

IPATOV, N. K. PA 197T73

USSR/Metals - Foundry, Processes Aug 51

"On the Theory of Gas Injection Through a Conical Sprue," N. K. Ipatov, V. A. Krivousov, Engineers, Chelyabinsk Metallurgical Plant

"Litey Proiz" No 8, pp 16-19

In the process of pouring, considerable vacuum may be created in sprue, causing injection of air and gases through fissures or pores in the walls of sprue. Analytical soln of this problem is unsatisfactory: hydraulic loss due to friction

197T73

USSR/Metals - Foundry, Processes (Contd) Aug 51

never was accounted for and law for pressure distribution along height of sprue was not established. Attempts hydraulic analysis, 1st excluding pressure loss of molten metal and then taking this loss into account.

197T73

IPATOV, N. K.

USSR/Metals - Cast Irons, Structure Nov 51

"Effect of Admixtures on Formation of Ferrite in Cast Iron," N. K. Ipatov, Cand Tech Sci, Chelyabinsk Metallurgical Plant

"Litey Proizvod" No 11, pp 20,21

Using statistical method, investigates effect of common alloying elements in gray iron -- C, Si and Mn -- on sepn of ferrite in cast structure. Established that correlation formula 2 Mn - Si $\geq$ 1 determines most favorable Si-Mn combination at which entirely pearlitic matrix of cast iron is obtainable.

19[illegible]82

IPATOV, N. K.

PA 233T70

USSR/Metallurgy - Cast Iron, Properties Aug 52

"Effect of Chemical Composition on the Hardness of Cast Iron," N. K. Ipatov

"Litey Proizvod" No 8, p 28

Studies influence of sep elements in perlitic cast iron on hardness of piston-ring castings. Hardness decreases noticeably with increase in content of C whose effect on hardness is highest. Mn has reverse effect. Si almost does not change hardness, which decreases with increase in concn of P and S due to tendency of these elements to segregation and formation of brittle chem compds.

233T70

1. IPATOV, M. K.

2. USSR (600)

4. Steel - Analysis

7. Sulfur waste in low-carbon Bessemer steel. Sel'khozmashina, No. 12, 1952

9. **Monthly List of Russian Accessions**, Library of Congress, February 1953. Unclassified.

IPATOV, N.K.

Chemical Abst.
Vol. 48 No. 5
Mar. 10, 1954
Metallurgy and Metallography

Dynamic strength of cemented low-carbon and medium-carbon steels. N. K. Ipatov (Tractor Plant, Chelyabinsk, U.S.S.R.). *Avtomobil. i Traktor. Prom.* 1953, No. 9, 28-30.—Steels contg. 0.10-0.45% C were cemented to a depth of 0.6–2.4 mm. and then subjected to dynamic and impact strength tests. Generally, cementation lowered the strength of low-C steels. Medium-C steels hardened throughout were stronger following cementation than low-C steels. M. Hoseh

IPATOV, N. N.

Influence of impurities on shrinkage of cast iron. N. K. Ipatov. *Liteinoe Proizvodstvo* 1953, No. 9, 28–9.—A statistical study of 196 heats of gray pearlitic cast iron with C 2.4–3.5, Mn 0.6–1.7, Si 1.5–2.7, P 0.15–0.55, S 0.05–0.15, and Cr 0.08–0.32% with shrinkage porosity as the criterion showed that C and P (in combination with the effect of all other elements) define the tendency of Fe towards shrinkage, and other elements have no influence. J. D. Gat

IPATOV, N.K., kandidat tekhnicheskikh nauk.

Refining heat treatment process for castings from surface-draft Bessemer steel. Sel'khozmashina no.10:20-24 O '53. (MLRA 6:11)
(Steel castings)

IPATOV, N. K.

USSR/Miscellaneous

Card 1/1 : Pub. 61 - 13/23

Authors : Ipatov, N. K.

Title : Sulfur loss in low-Bessemer steel

Periodical : Lit. proizv. 4, page 26, July 1954

Abstract : Experiments were conducted to determine the actual changes in the content of poisonous admixtures during scavenging in Bessemer converters. It was found that the S content was lower and the P content was higher in Bessemer steel smelts than in blown cast-iron which contains only 0.13% S and 0.127% P. The possibility of desulfurization in an acid converter is explained. Graphs.

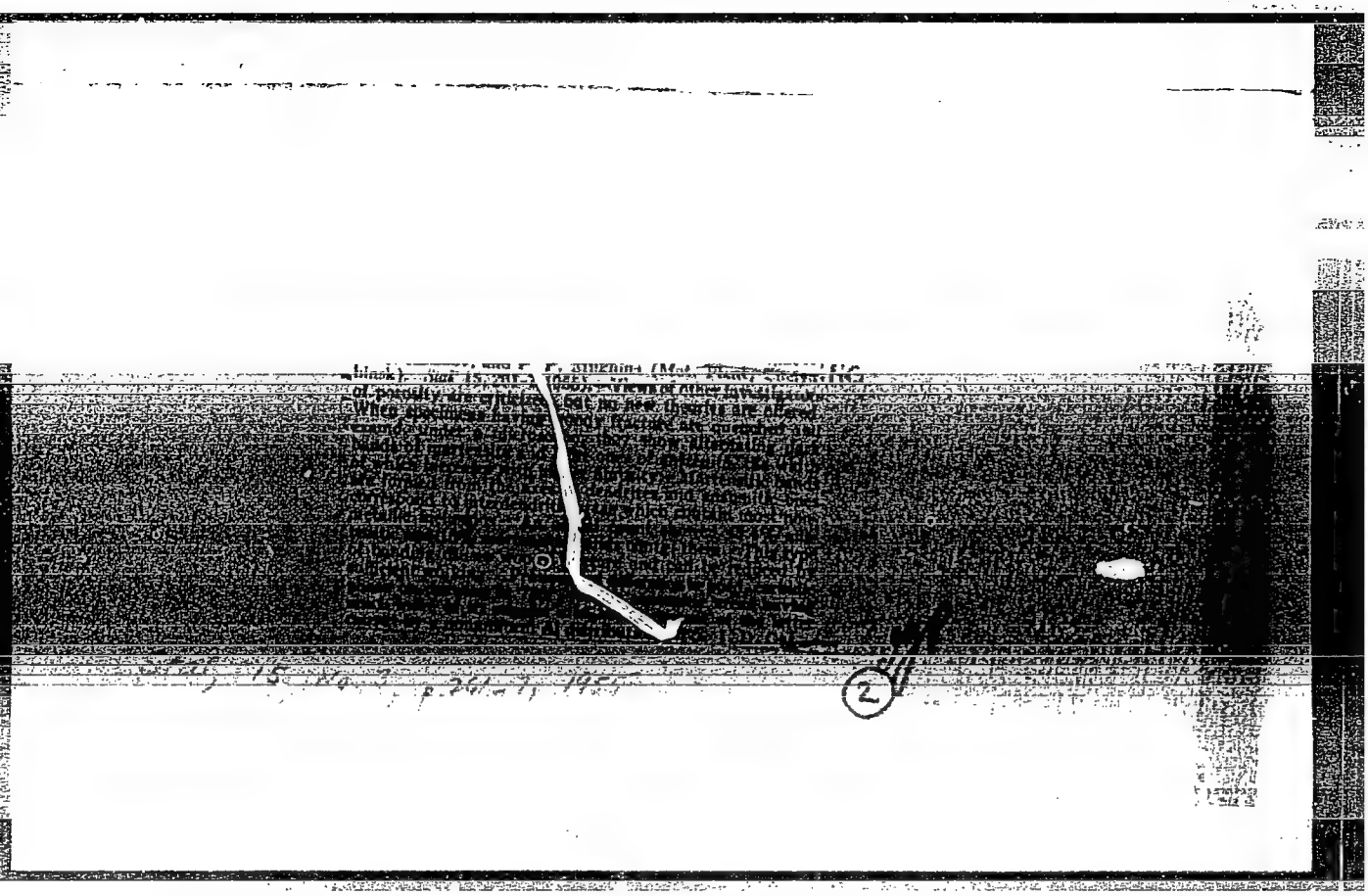
Institution : ...

Submitted : ...

IPATOV, N.K., kandidat tekhnicheskikh nauk.

All-Union State Standard 801-41 for bearing steel needs changing. Standartizatsiia no.5:53-56 S-O '54. (MLRA 8:2)

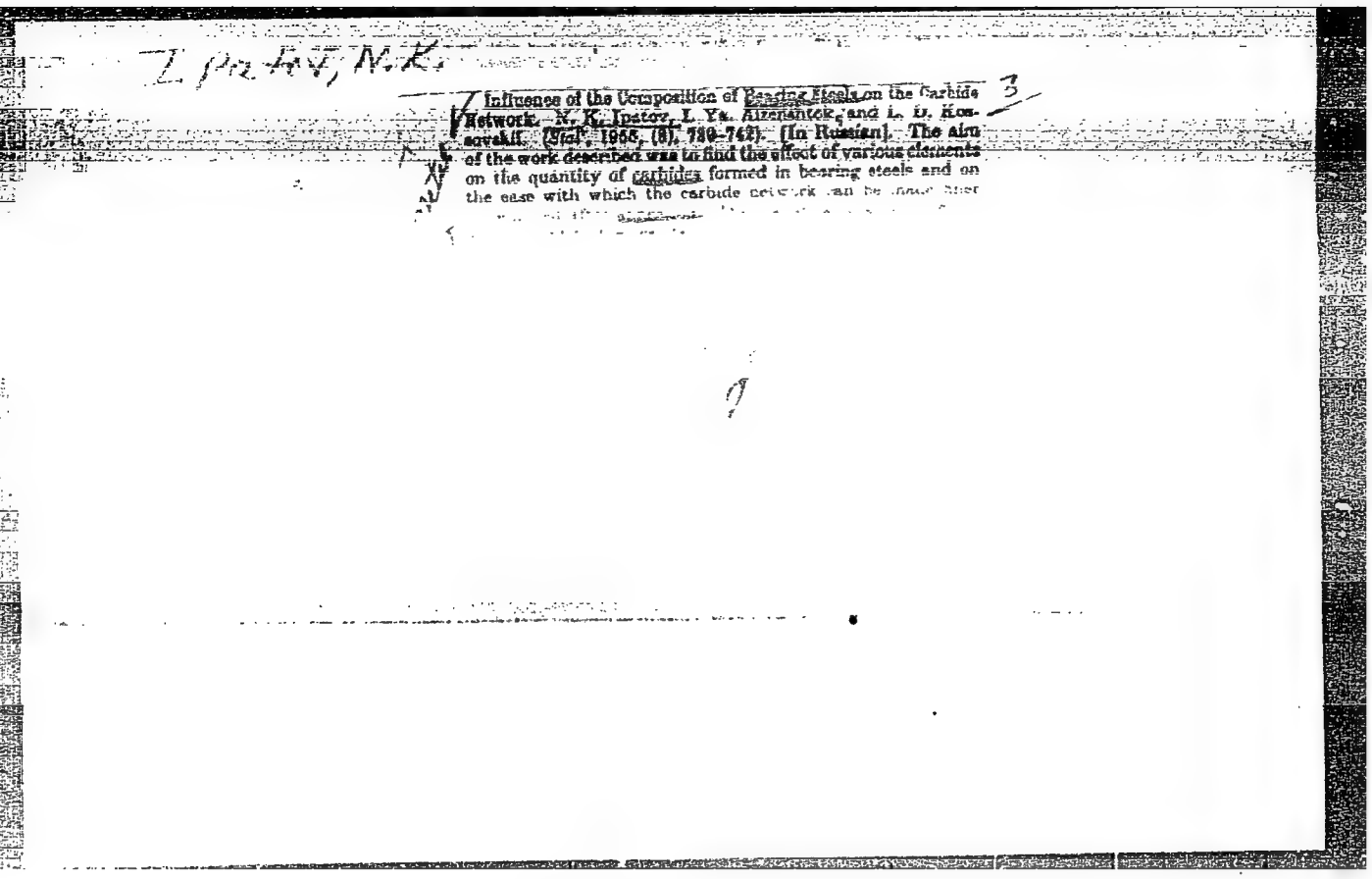
1. Nachal'nik laboratorii Chelyabinskogo metallurgicheskogo zavoda.
(Steel--Specifications)



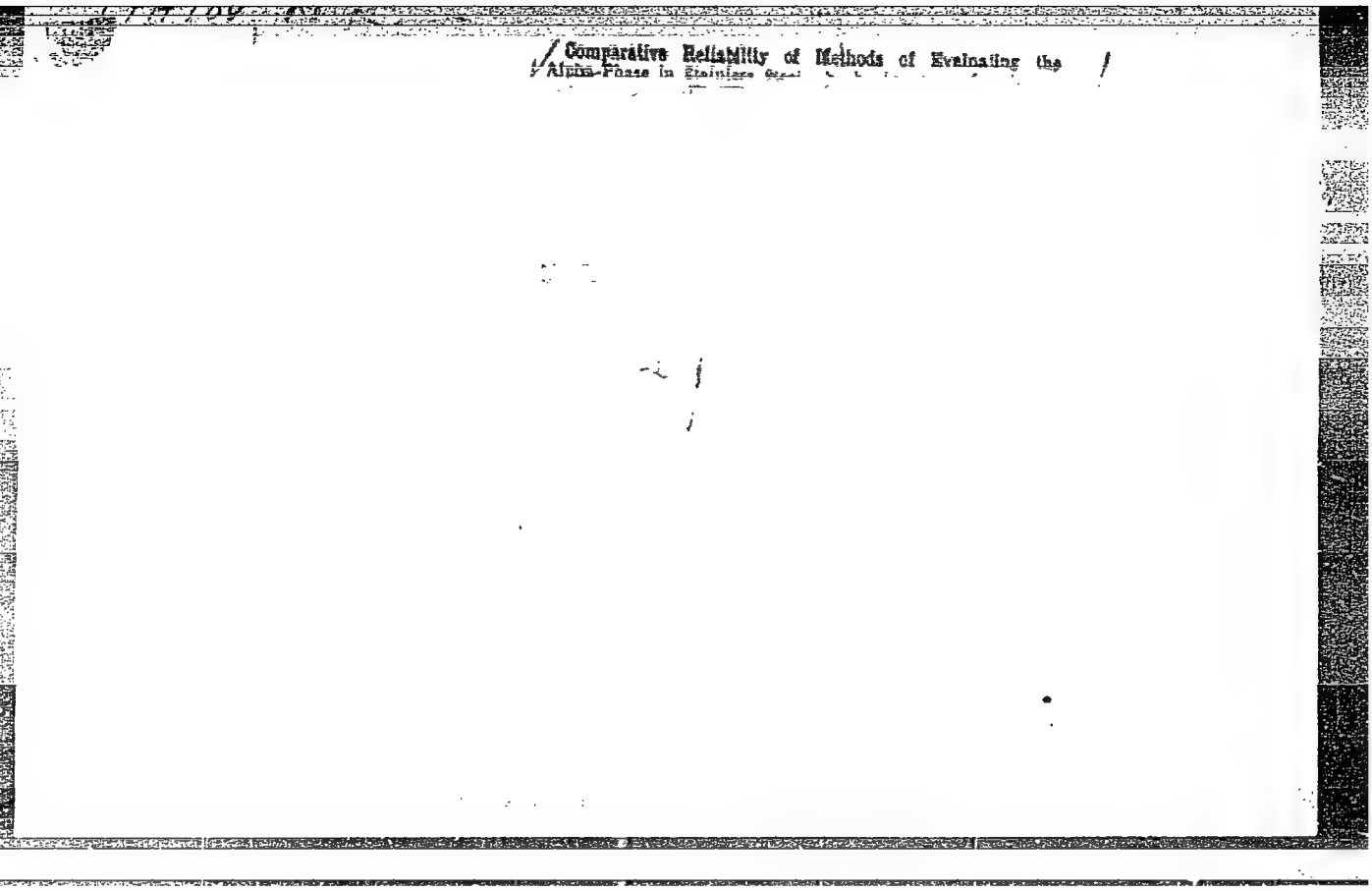
IPATOV, N.K., kandidat tekhnicheskikh nauk

The effect of spotty liquation and woody fracture on the mechanical properties of steel. Stal' 15 no.6:549-552 Je '55. (MLRA 8:8)

1. Chelyabinskiy metallurgicheskiy zavod. (Steel--Testing)



Influence of the Composition of Bearing Steels on the Carbide Network. N. K. Ipatov, L. Ya. Aizenshtok, and L. D. Konovalli. (Stal', 1955, (8), 740-742). [In Russian]. The aim of the work described was to find the effect of various elements on the quantity of carbides formed in bearing steels and on the ease with which the carbide network can be [illegible]



IPATOV, N.K., kandidat tekhnicheskikh nauk; MERENISHCHEVA, I.I., inzhener.

Effect of cooling during annealing on the corrosion cracking of brass.
TSvet.met. 28 no.1:65-68 Ja-F '55. (MIRA 10:10)
(Brass)

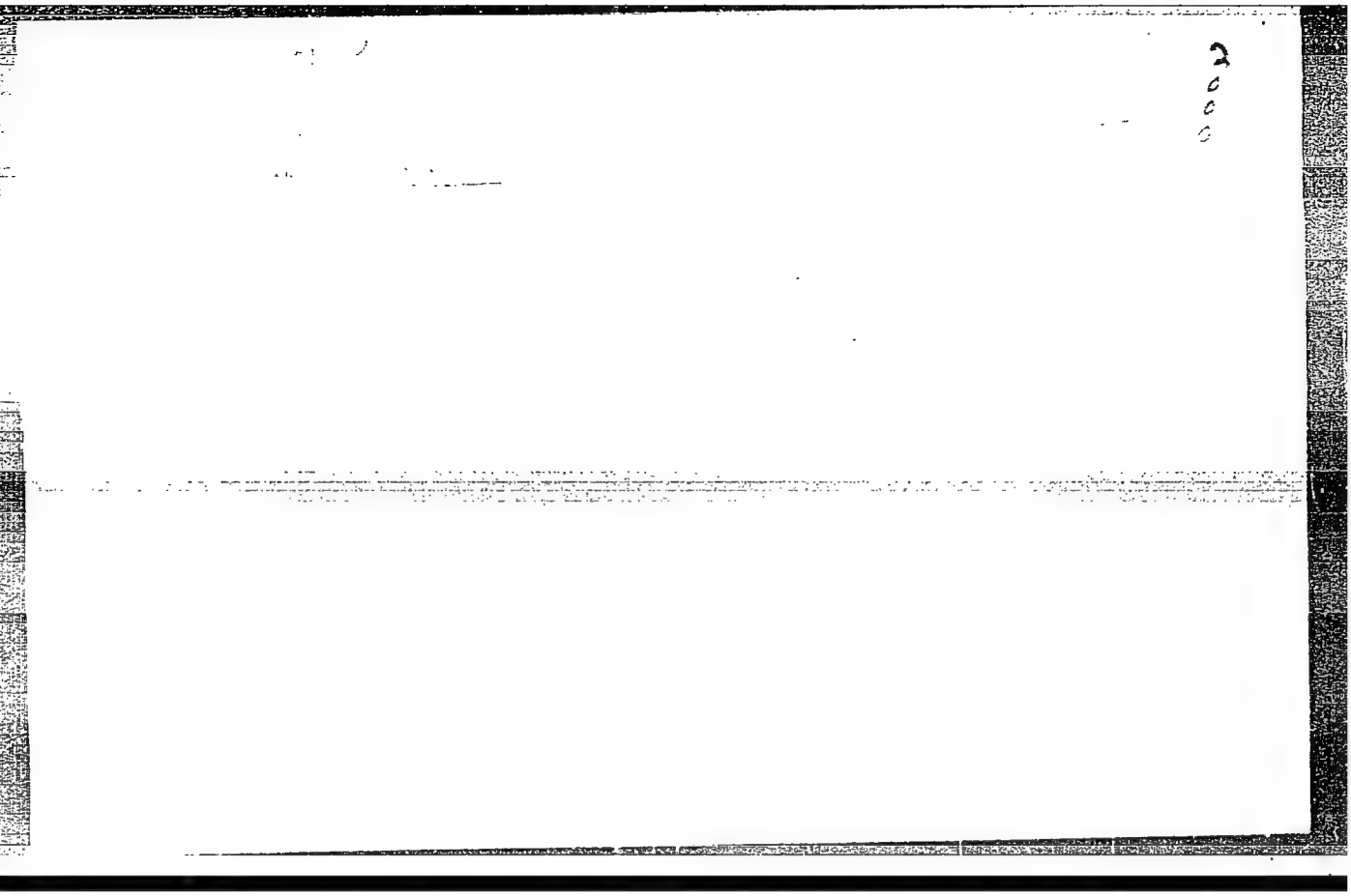
IPATOV, N.K., kandidat tekhnicheskikh nauk; FATEYEV, V.A., kandidat tekhnicheskikh nauk.

Review of methods used in calculating steel casting deadheads. Lit. proizv.no.3:27-32 Mr '56. (MLRA 9:7)
(Steel castings)

Methods for calculating shrinkage heads recently proposed by three authors are critically discussed and the need for a sufficient experimental basis for such calculations is indicated.

IPATOV, N.K., kandidat tekhnicheskikh nauk; PATEYEV, V.A., kandidat tekhnicheskikh nauk.

Computational determination of deadheads. Lit.proizv.no.7:20-25 Jl '56. (Founding) (MLRA 9:9)



Ipatov, N.K.

IPATOV, N.K., kandidat tekhnicheskikh nauk.

Checking steel defects on temper fractures. Stal' 16 no.7: 629-631 Jl '56. (MLRA 9:9)

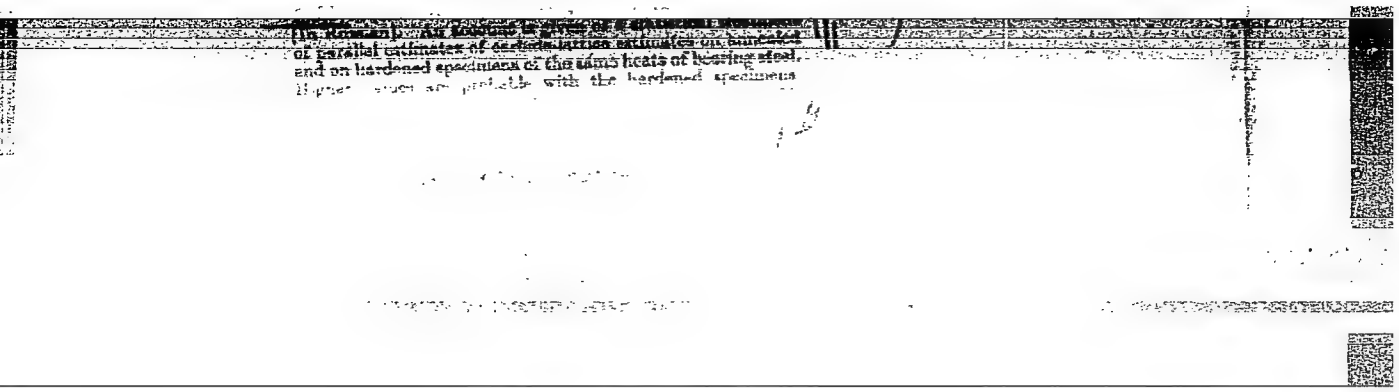
(Steel--Defects)

It is recommended that the classification of flaws in steel fractures should be extended to include factors providing additional checks and giving more quantitative characteristics of metal q uality.

IPATOV, N.K.

Effect of structural weaknesses of steel samples on impact strength.
Zav.lab. 22 no.1:94-97 '56. (MLRA 9:5)

1. Chelyabinskiy metallurgicheskiy zavod.
(Steel--Testing)



of parallel estimates of carbide-lattice estimates on materials
and on hardened specimens of the same heats of bearing steel.
Higher values are possible with the hardened specimens

the rate of fall of the liquid metal level [illegible]
process. Photograph, diagrams. 6 ref.

IPATOV, N.K.

Dendritic structure of primary crystallites in steel ingots. Fiz. met. i metalloved. 11 no. 5:759-765 My '61. (MIRA 14:5)

1. Dnepropetrovskiy filial Ukrainskogo zaochnogo politekhnicheskogo instituta.
(Steel ingots) (Steel—Metallography)

IPATOV, N. K., kand. tekhn. nauk, dotsent; FATEYEV, V. A., kand. tekhn. nauk, dotsent

Efficiency of risers. Izv. vys. ucheb. zav.; mashinostr. no.7:112-122 '62. (MIRA 16:1)

1. Chelyabinskiy politekhnicheskiy institut.

(Molding(Founding))

IPATOV, N.K.

Terminology and classification of primary crystallization zones in castings. Lit.proizv. no.4:45-48 Ap '63. (MIRA 16:4)
(Steel ingots—Metallography) (Crystallization)

IPATOV, N.K.

Existing opinions on lamination in structural steel fractures. Izv. vys. ucheb. zav.; chern. met. 6 no.3:159-160 '63. (MIRA 16:5)

1. Dnepropetrovskiy filial Ukrainskogo zaochnogo politekhnicheskogo instituta.

(Steel, Structural—Defects)

..., sb. Metallurgiya, Abs. [illegible]

AUTHOR: Ipatov, N. K.

[illegible]lamination in the structure of [illegible] steels

[illegible], Sverdlovskiye stali, [illegible], [illegible]

[illegible]lamination, steel fracture, [illegible]

[illegible] steel, [illegible]

TRANSLATION: The article disputes the hypothesis of I. Golikov and [illegible] that lamination in the [illegible] of structural

[illegible], lamination is observed [illegible] and

L 35594-65

ACCESSION NR: AR5005858

softening annealing at 610°. The microstructure is weakly

Card 2/2

FATEYEV, V.A., kand. tekhn. nauk, dotsent; IPATOV, N.K., kand. tekhn. nauk, dotsent

Analytic determination of the efficiency of risers. Izv. vys. ucheb. zav.; mashinostr. no.11:184-191 '63. (MIRA 17:10)

1. Chelyabinskiy politekhnicheskiy institut.

IPATOV, P.

The budget commission of the district soviet uncovers hidden potentialities. Fin.SSSR 16 no.9:79-81 S'55. (MLRA 8:12)

1. Predsedatel' byudzhetnoy komissii Shcherbakovskogo rayonnogo soveta Moskvy.
(Moscow--Finance)

Ipatov, P

IPATOV, P.

Increase the role of local budgets in economic and cultural constructions.
Fin.SSSR 18 no.11:32-35 N '57. (MIRA 10:12)
(Budget)

ALLAKHVERDYAN, D., kand. ekon. nauk; IPATOV, P., kand. ekon. nauk; SHER, I., doktor ekon. nauk.

"Finance and socialist construction." Reviewed by D. Allakhverdian, P. Ipatov, I. Sher. Fin. SSSR 19 no.6:83-89 Je '58. (MIRA 11:6)
(Finance)

IPATOV, P.

Strengthening the institute's tie with production. Fin. SSSR 21 no.12:45-50 D '60. (MIRA 13:12)

1. Zamestitel' direktora Moskovskogo finansovogo instituta.
(Moscow--Finance--Study and teaching)
(Education, Cooperative)

IPATOV, P.; ZHELEZIN, V.

Higher education without a break in your work. Nauka i pered.op.v sel'skokhoz.7 no.1:36-38 Ja '57. (MLRA 10:2)

1. Direktor Vsesoyuznogo sel'skokhozyaystvennogo instituta zaochnogo obrazovaniya.
(Correspondence schools and courses)
(Agriculture--Study and teaching)

IPATOV, P.

For safe and healthy working conditions. Blok. agit. vod. transp. no.22:1-7 N '56. (MLRA 9:12)

(Merchant marine--Safety measures)

IPATOV, P. D.

29782

Kharaktyeristika proizvodityelyey konnykh zavodov russkoy rysistov porody po gyenyealogichyeskim liniyam (1948 G.) Trudy Voronyezhsk. Zoovyetin-ta, T. XI, 1948, S. 31-62

SO: LETOPIS' NO. 40

LYUBIMOV, N.N., prof.; ALLAKHVERDYAN, D.A., dotsent; STAM, V.M., dotsent; GOL'DENBERG, A.M., dotsent; VINOKUR, P.D., dotsent; AZARKH, M.R., dotsent; SHER, I.D., prof.; RIVKIN, B.B., dotsent; ABROSKIN, A.A., dotsent; DYMSHITS, I.A., dotsent [deceased]; KON'SHIN, F.V., prof.; IPATOV, P.P., dotsent; NIKOL'SKIY, P.S., kand.ekon.nauk; ROSHCHINA, L., red.; TELEGINA, T., tekhn.red.

[Finance in the U.S.S.R.; a collection] Finansy SSSR. Avtorskii kollektiv pod rukovodstvom D.A.Allakhverdiana i N.N.Liubimova. Moskva, Gosfinizdat, 1958. 391 p. (MIRA 12:4)

1. Moskovskiy finansovyy institut (for all except Roshchina, Telegina).
(Finance)

ALLAKHVERDYAN, D.A., prof.; IPATOV, P.F., dots.; STAM, V.M., dots.; ABROSKIN, A.A., dots.; VINOKUR, R.D., dots.; AZARKH, M.R., dots.; SHER, I.D., prof.; KON'SHIN, F.V., prof.; NIKOL'SKIY, P.S., dots.; KONDRAT'YEV, A., red.; FILIPPOVA, E., red.; LEBEDEV, A., tekhn. red.

[Finances of the U.S.S.R.]Finansy SSSR. Moskva, Gosfinizdat, 1962. 412 p. (MIRA 16:1)

1. Moskovskiy finansovyy institut (for all except Kondrat'yev, Filippova, Lebedev).

(Finance)

88008

S/170/60/003/012/005/015
B019/B056

11.7200

AUTHOR: Ipatov, P. G.

TITLE: Propagation of a Flame on the Surface of a Liquid

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 12, pp. 49-52

TEXT: The propagation of flame on the surface of acetone, ethyl alcohol, butyl alcohol, benzene and toluene was investigated in the temperature range of the flash point in a first test series, and below the flash point of the liquid in a second series. In the course of the first experimental series, saturated vapors of the liquid to be investigated were produced by means of a cooler and a pump in two tubes B and C; tube B contained also liquid besides the vapor, and tube C contained vapor only. The tubes could be kept upon the same level of temperature by means of suitable devices, and when attaining saturation point, the vapors were ignited. Flame propagation was photographed by means of a movie camera in both tubes. The second series of experiments was carried out by means of tubes which were closed on one side and were

Card 1/2

Propagation of a Flame on the Surface of a Liquid

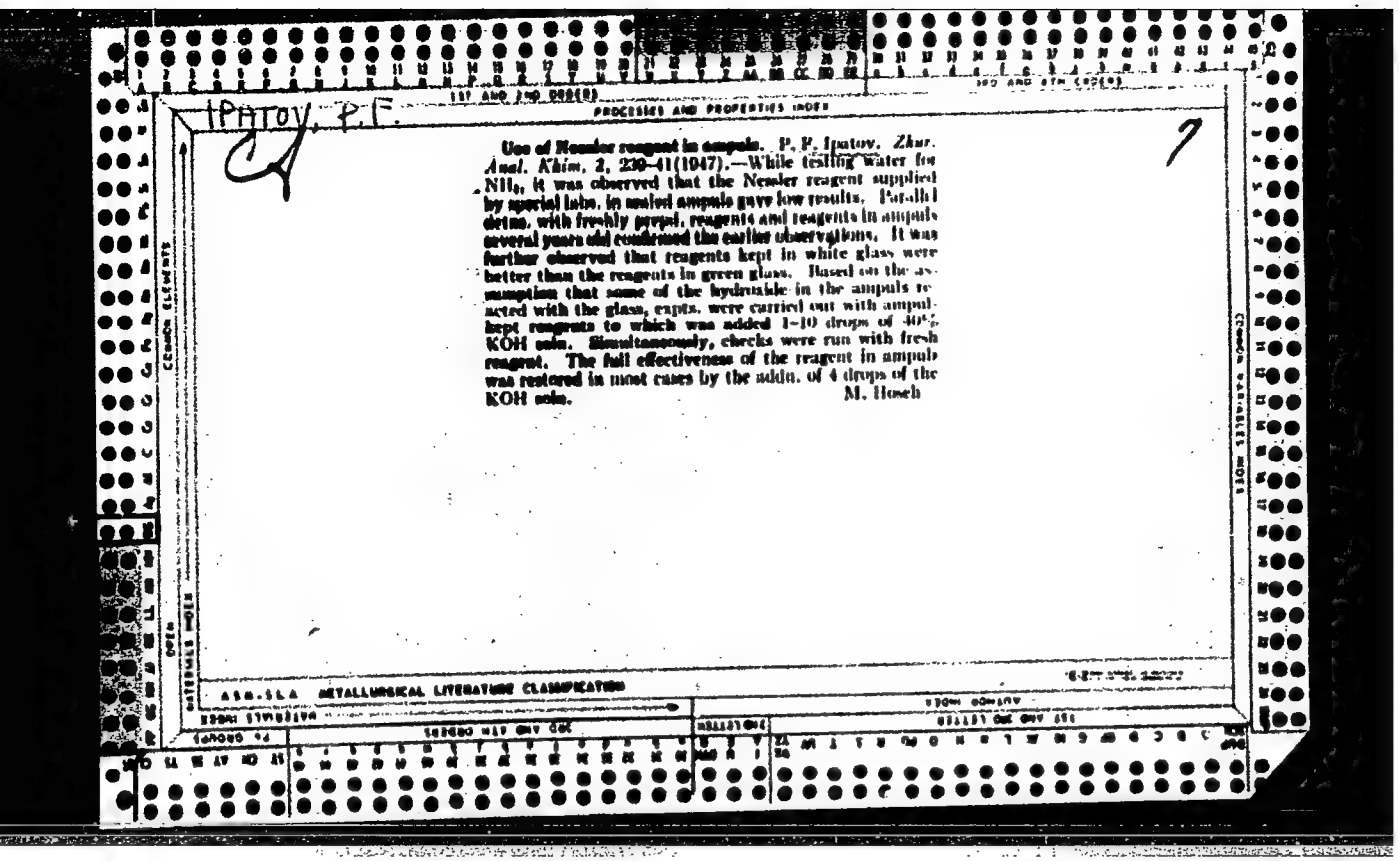
S/170/60/003/012/005/015
B019/B056

fitted with a longitudinal channel. The tubes could again be kept on the desired temperature level. At one end of tube and channel an incandescent wire spiral (1500°C) was fitted at a distance of 7 mm. The propagation of the flame was again photographed. As was observed from the results obtained in the first experimental series, the propagation rates in the two tubes are practically in agreement. Thus, the surface of the liquid has practically no influence upon flame propagation. In the second series it was found that the vapor-air mixture, if no liquid was in the tube, could not be ignited below the flashpoint, whereas in the presence of liquid, burning could be attained. This shows that in flame propagation, the liquid surface plays an important part. The velocity is considerably lower. There are 3 figures, 1 table, and 3 references: 2 Soviet and 1 Japanese.

ASSOCIATION: Institut aviatsionnogo priborostroyeniya, g. Leningrad (Institute of Aeronautical Instrument Construction, Leningrad)

SUBMITTED: June 17, 1960

Card 2/2



IPATOV, P.F.

PROCESSES AND PROPERTIES INDEX

Use of Nessler reagent in ampuls. P. F. Ipatov. *Zhur. Anal. Khim.* 2, 239–41(1947).—While testing water for NH_3, it was observed that the Nessler reagent supplied by special labs. in sealed ampuls gave low results. Parallel detns. with freshly prepd. reagents and reagents in ampuls several years old confirmed the earlier observations. It was further observed that reagents kept in white glass were better than the reagents in green glass. Based on the assumption that some of the hydroxide in the ampuls reacted with the glass, expts. were carried out with ampul-kept reagents to which was added 1–10 drops of 40% KOH soln. Simultaneously, checks were run with fresh reagent. The full effectiveness of the reagent in ampuls was restored in most cases by the addn. of 4 drops of the KOH soln.

M. Hoseh

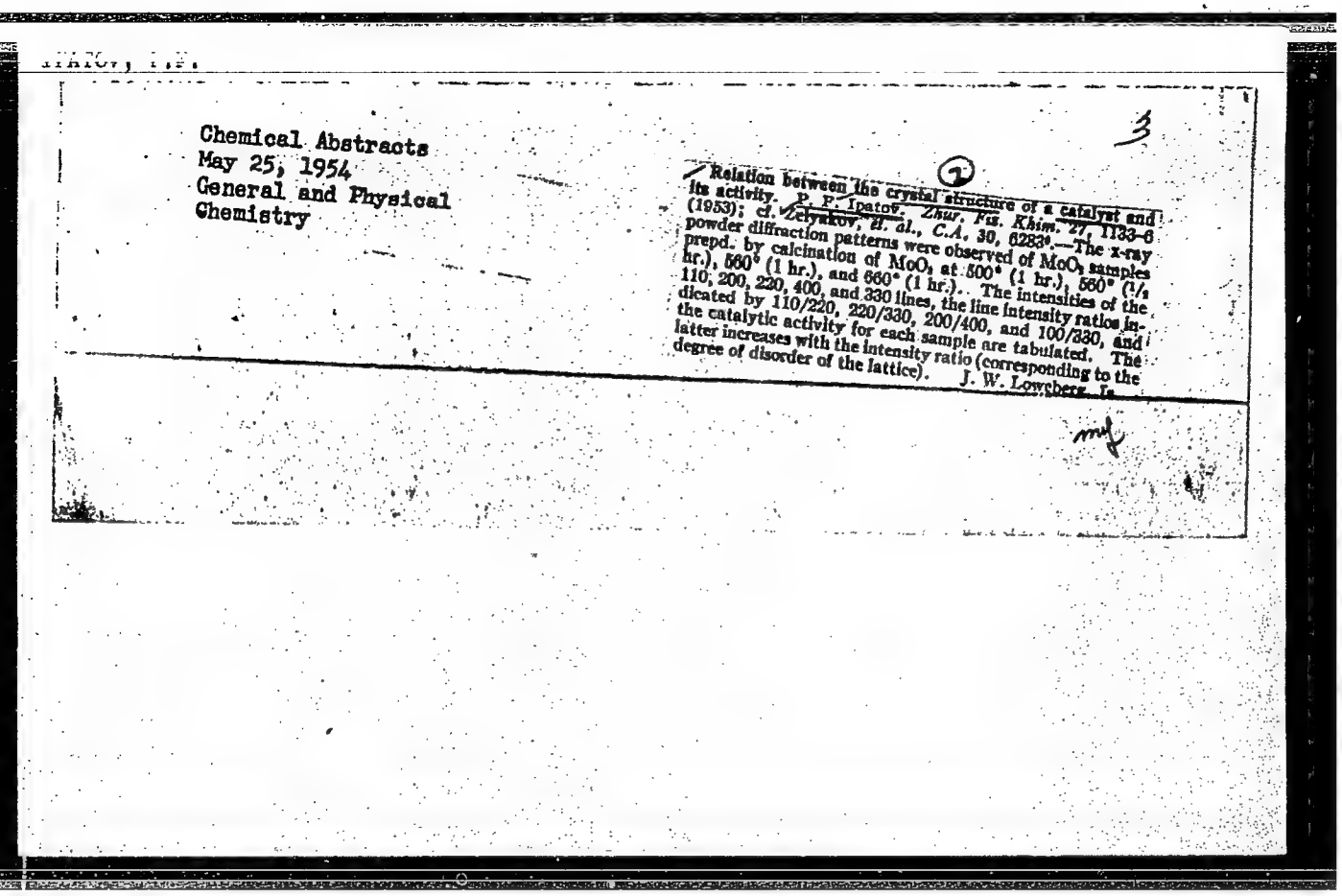
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

IPATOV, P. F.

Photographic Chemistry

Effect of amonia and potassium bromide on the dispersion of silver bromide in protographic emulsions. Usp.nauch.fot., No. 1, 1951.

9. Monthly List of Russian Accessions, Library of Congress, June 1952, Uncl.



Chemical Abstracts
May 25, 1954
General and Physical
Chemistry

3

Relation between the crystal structure of a catalyst and its activity. P. P. Ipatov. *Zhur. Fiz. Khim.* 27, 1133–6 (1953); cf. Zelyakov, *B. al., C.A.* 30, 6283⁸.—The x-ray powder diffraction patterns were observed of MoO_3 samples prepd. by calcination of MoO_3 at 500° (1 hr.), 560° (½ hr.), 560° (1 hr.), and 660° (1 hr.). The intensities of the 110, 200, 220, 400, and 330 lines, the line intensity ratios indicated by 110/220, 220/330, 200/400, and 100/330, and the catalytic activity for each sample are tabulated. The latter increases with the intensity ratio (corresponding to the degree of disorder of the lattice). J. W. Lowtberg, Ja.

IPATOV, P.F.

USSR/ Laboratory Equipment. Apparatuses, Their Theory, Construction and Application. I

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27365.

Author : P.F. Ipatov

Title : Electron-Optical Transformation at Preparation and Treatment of Photographic Materials.

Orig Pub: Zh. nauch. i prikl. fotogr. i kinematogr., 1956, 1, No. 5, 385 - 386.

Abstract: no abstract.

Card 1/1

IPATOV, Pavel Fedorovich; KONDRAT'YEVA, A.I., red.; NOVIKOVA, I.V., red.izd-va; GOROKHOVA, S.S., tekhn. red.

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